

# LCCA30010-FT1.5



# Configuration

- · Connector 1: N Male
- Connector 2: N Female Bulkhead
- · Cable Type: 402SS Series

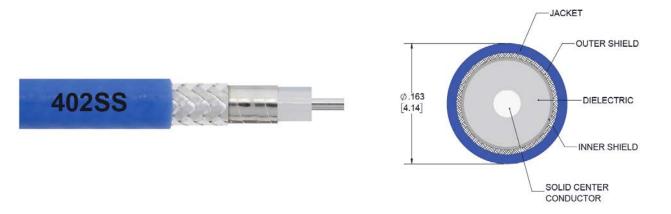
#### **Features**

- Max Frequency 18 GHz
- Shielding Effectivity > 110dB
- 70% Phase Velocity
- · Double Shielded
- FEP Jacket

## **Applications**

- · General Purpose
- · Laboratory Use

- · Wire Braid over Spiral Strip Shield
- Flexible Alternative to .141 Semi-Rigid
- Heavy Duty Heat Shrink Strain Relief Boot
- Precision Stainless Steel Connectors
- Flexible RF Interconnect
- · Automated (ATE) Test Systems



### Description

L-com's LCCA30010-FT1.5 is a N male to N female bulkhead cable using 402SS series coax with heavy duty boot, 1.5 ft and ships same-day. The 402SS series coax of this N cable uses the PTFE dielectric with a VoP of 70%. These flexible RF cable assemblies are ideal for applications where flexure is required. Our L-com N to N cable assembly has a male to female gender configuration with flexible 402SS series series coax and operates to 18 GHz. The double shield of this N cable is layered by silver plated copper braid over silver plated copper tape providing excellent shielding effectiveness greater than 110dB. L-com's RF cable assembly with N bulkhead interface enables system designers to have external connections on their product enclosures or to be used for other rack mount and panel mount applications. L-com's Cable Assembly LCCA30010 is an N male to N female bulkhead, 1.5 ft cable using 402SS Series coax with Heavy Duty Boot that ships same-day. L-com's flexible RF cable assemblies are ideal for applications where tight bends and flexure are required. This L-com N to N cable assembly has a male to female gender configuration with 50 ohm flexible 402SS Series coax and operates to 18 GHz. Our RF cable assembly with N bulkhead interface allows designers to create external connections on their product enclosures, and can be used in a variety of other rack mount and panel mount applications. Highly durable stainless-steel connectors and heavy-duty booting extend the life of this versatile flexible cable assembly. The double shield includes a silver plated copper braid over a silver plated copper spiral strip providing excellent shielding effectiveness greater than 110dB.

Custom versions of this cable assembly along with the rest of L-com's RF cable assemblies can be built and shipped same day. Other available RF cable



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## LCCA30010-FT1.5

assembly value added services include connector orientation or clocking, heat shrink booting and custom labeling. RF testing can also be performed to document the electrical performance of your cable assembly. Contact a sales representative for custom cable quotes.

Custom versions of this N male to N female cable, along with the rest of L-com's other RF assemblies, can also be built and shipped same day. Other available RF cable assembly value added services from L-com include connector orientation or clocking, heat shrink booting and custom labeling. RF testing can also be performed to document the electrical performance of your cable assembly. Contact a sales representative for testing or custom RF cable quotes. Part number LCCA30010-FT1.5 L-com N Male to N Female Bulkhead Cable Using 402SS Series Coax with Heavy Duty Boot, 1.5 ft data sheet PDF includes details of the RF product specifications, CAD drawing(s) and dimensions below.

# **Electrical Specifications**

Minimum	Typical	Maximum	Units
DC		18	GHz
		1.4:1	
	70		%
110			dB
	29.4 [96.46]		pF/ft [pF/m]
		500	Vrms
	DC	DC 70 110	DC 18 1.4:1 70 110 29.4 [96.46]

### Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	3	5	10	18		GHz
Insertion Loss (Max.)	0.567	0.707	0.997	1.357		dB

#### **Electrical Specification Notes:**

The Insertion Loss data above is based on the performance specifications of the coax cable and connectors used in this assembly. The Insertion Loss is estimated as 0.1\*SQRT(FGHz) dB for the N Type Male connector and 0.07\*SQRT(FGHz) dB for the N Female Bulkhead connector.

# **Mechanical Specifications**

### **Cable Assembly**

 Length
 18 in [457.2 mm]

 Diameter
 0.315 in [8 mm]

 Weight
 0.25 lbs [113.4 g]

#### Cable

Cable Type402SS SeriesImpedance50 OhmsInner Conductor TypeStrandedInner Conductor Material and PlatingCopper, Silver



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Dielectric Type Number of Shields Shield Layer 1 Shield Layer 2 Jacket Material Jacket Diameter PTFE
2
Silver Plated Copper Tape
Silver Plated Copper Braid
FEP, Blue
0.163 in [4.14 mm]

Repeated Minimum Bend Radius

1 in [25.4 mm]

### **Connectors**

Description	Connector 1	Connector 2	
Туре	N Male	N Female Bulkhead	
Specification	MIL-STD-348A	MIL-STD-348A	
Impedance	50 Ohms	50 Ohms	
Contact Material and Plating	Brass, Gold	Brass, Gold	
Contact Plating Specification	50 μin minimum	50 μin minimum	
Dielectric Type	PTFE	PTFE	
Body Material and Plating	Brass, Nickel	Brass, Nickel	
Body Plating Specification	100 µin minimum	100 μin minimum	
Coupling Nut Material and Plating	Brass, Nickel	Brass, Nickel	
Coupling Nut Plating Specification	100 µin minimum	100 µin minimum	
Boot Material	Heavy Duty Heat Shrink Boot	Heavy Duty Heat Shrink Boot	

# **Environmental Specifications**

**Temperature** 

Operating Range -55 to +165 deg C

Compliance Certifications (see product page for current document)

## **Plotted and Other Data**

Notes:

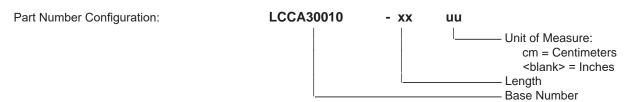
• Values at 25°C, sea level.



# LCCA30010-FT1.5



### **How to Order**



Example: LCCA30010-12 = 12 inches long cable

LCCA30010-100cm = 100 cm long cable

N Male to N Female Bulkhead Cable Using 402SS Series Coax with Heavy Duty Boot, 1.5 ft from L-com has same day shipment for domestic and International orders. L-com is a leading manufacturer of wired and wireless connectivity products and committed to instock availability and same day shipping. Our portfolio includes coaxial cable assemblies, connectors, adapters and custom products as well as lightning and surge protectors, NEMA rated enclosures, and an RF product line which includes antennas, amplifiers, passive, and active components.

The information contained within this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part in order to impliment improvements. L-com reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. L-com does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and L-com does not assume liability arising out of the use of any part or document.ontained within this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part in order to impliment improvements. L-com reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. L-com does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and L-com does not assume liability arising out of the use of any part or document.

# **L-com CAD Drawing**

